

Amendment to the Specification

Please amend the Brief Description of the Drawings as follows:

Brief Description of the Drawings

Other aspects and features of the present invention and many of the attendant advantages of the present invention will be readily appreciated, as the invention becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawing figures thereof and wherein:

Figure 1 depicts the logic operation associated with the UOP and LOP for a power efficiency control circuit according to one embodiment;

[Figure 2] Figures 2A – 2C illustrate[s] the low-to-high transition of an input signal versus switch connections for the power efficiency control circuit depicted in Figure 1;

Figure 3 is a schematic diagram illustrating a MUX pre-driver stage suitable for implementing the power efficiency control circuit shown in Figure 1 according to one embodiment of the present invention;

Figure 4 is a graph depicting simulated plots of MUX functionality for the MUX pre-driver shown in Figure 3;

Figure 5 depicts a common pre-driver implementation;

Figure 6 is a graphic pictorial illustrating the transfer of short circuit current to dynamic drive current according to one embodiment;

Figure 7 illustrates a typical pre-driver stage that is not required with the MUX pre-driver shown in Figure 3; and

Figure 8 is a graph depicting a set of plots illustrating lower power consumption without the loss of speed associated with the MUX pre-driver shown in Figure 3.

While the above-identified drawing figures set forth a particular embodiment, other embodiments of the present invention are also contemplated, as noted in the discussion. In all cases, this disclosure presents illustrated embodiments of the present invention by way of representation and not limitation. Numerous other modifications and embodiments can be devised by those skilled in the art which fall within the scope and spirit of the principles of this invention.